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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/043,102		01/14/2002	Kazumi Naito	Q68095	6751
23373	7590	03/31/2003			
SUGHRUE			EXAMINER		
		NIA AVENUE, N.W.	MAI, NGOCLAN THI		
WASHING	ION, DC	20037			
				ART UNIT	PAPER NUMBER
				1742	
				DATE MAILED: 03/31/2003	•
					10

Please find below and/or attached an Office communication concerning this application or proceeding.

1								
		Applicati n No.	Applicant(s)					
Office Action Summ ry		10/043,102	NAITO, KAZUMI					
		Examiner	Art Unit					
		Ngoclan T. Mai	1742					
The MAILING DATE of this communication appears on the cover shet with the correspondence address Period for Reply								
THE - External after - If the control of the contro	MAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.13  In SIX (6) MONTHS from the mailing date of this communication.  In Provision of the provision of 37 CFR 1.13  In Provision of 37 CFR 1.704(b).	36(a). In no event, however, may a reply be a within the statutory minimum of thirty (30) divill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).					
1)🛛	Responsive to communication(s) filed on 1/14	<u> 1/02</u> .						
2a)□	This action is FINAL. 2b)⊠ Th	is action is non-final.						
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	cion of Claims							
4)[	Claim(s) <u>1-20</u> is/are pending in the application.  4a) Of the above claim(s) <u>4-20</u> is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
′—	Claim(s) is/are allowed.  Claim(s) <u>1-3</u> is/are rejected.							
7)								
,—	Claim(s) <u>1-20</u> are subject to restriction and/or	election requirement.						
-	ion Papers	·						
9)[]	The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
•	under 35 U.S.C. §§ 119 and 120							
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).					
a)	□ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents							
*	<ol> <li>Copies of the certified copies of the prior application from the International Bu</li> <li>See the attached detailed Office action for a list</li> </ol>	reau (PCT Rule 17.2(a)).						
14) 🗌 .	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional application).					
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>								
Attachmei	nt(s)							
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)					

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-3, drawn to niobium powder, classified in class 75, subclass 255.
  - II. Claims 4-11, drawn to sintered body, classified in class 75, subclass 246.
  - III. Claims 12-20, drawn to capacitor, classified in class 361, subclass 529.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as brazing metal or paint material and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 3. Inventions II and III are related as mutually exclusive species in an intermediatefinal product relationship. Distinctness is proven for claims in this relationship if the

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intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as superconductor and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Inventions I and III are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as brazing metal or coating material and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification restriction for examination purposes as indicated is proper.

- 6. During a telephone conversation with applicant's attorney Raul Tamayo on March 18, 2003 a provisional election was made without traverse to prosecute the invention of group I, claims 1-3.
- 7. Affirmation of this election must be made by applicant in replying to this Office action. Claims 4-20 have been withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Behrens in view of Fife (US Patent No. 6,051,044).

Behrens discloses fine-grained, high purity earth acid metal powders having primary particle size of no more than 0.7 micron, total alkali content of at most 30 ppm, potassium content not exceeding 10 ppm, and total content of iron, chromium and nickel of at most 30 ppm. The earth acid metal disclosed includes tantalum and niobium. Behrens gives examples of producing tantalum powders with impurities within the

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claimed ranges. Since niobium has similar characteristic as tantalum, niobium powder produced would inherently has impurities in the amounts similar to the tantalum production. Behrens however does not teach the presence of nitrogen content as claimed.

Fife discloses adding nitrogen at least more than 500 ppm to about 4000 ppm reduces the DC leakage in niobium anode. It would have been obvious to add nitrogen in the amount taught by Fife to niobium powder taught by Behrens to reduce DC leakage of niobium anode.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (703) 306-4162. The examiner can normally be reached on 7:30-4:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (703) 308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Ngoclan T. Mai Primary Examiner Art Unit 1742

n.m.

March 24, 2003